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☒ **document 3 of 6** [Order Document](#)**INSPEC - 1969 to date (INZZ)****Accession number & update**

5561148, A9711-8160B-001, B9706-7320C-007; 970430.

TitleInfluence of flow field on **piping** erosion-corrosion and **pipe wall** monitoring.**Author(s)**[Ma-Yin-Peng](#); [Feng-Yi-Ming](#); [Lin-Yun-Peng](#); [Shiau-Der-Yun](#); [Ma-Kuo-Tung](#); [Chung-Nien-Mien](#).**Source**

Monthly-Journal-of-Taipower-s-Engineering (Taiwan), vol.581, p.1-20, Jan. 1997. , Published: Taiwan Power Co. Power Res. Inst.

CODEN

TGYUFU.

ISSN

ISSN: 0494-5468.

Availability

SICI: 0494-5468(199701)581L:1:IFFP; 1-K.

Publication year

1997.

Language

CH.

Publication type

J Journal Paper.

Treatment codes

T Theoretical or Mathematical.

Abstract

Erosion-corrosion (E/C) is a serious problem, which affects the industry throughout the world. This phenomenon can be observed within the **wall** of **piping** in the nuclear, fossil, and chemical plants, causing costly plant repairs and personal injuries. Therefore, understanding of E/C phenomenon provides a topic worth investigating. Using a computational **fluid** dynamic (CFD) code, this develops an analytical model to evaluate the single-phase and two-phase flow field within the **pipes**. The influence of flow distribution on the E/C phenomenon is resolved. The calculated results can be applied in the measurement of **wall thickness** at a nuclear power plant. (6 refs).

Descriptors[corrosion](#); [fluid-dynamics](#); [monitoring](#); [nuclear-power-stations](#); [thickness-measurement](#); [two-phase-flow](#); [wear](#).**Keywords**two phase flow; **thinning**; flow field; **piping** erosion; **piping** corrosion; **pipe wall** monitoring; nuclear power plants; fossil power plants; chemical plants; plant repairs; personal injuries; computational **fluid** dynamic code; flow distribution; **wall thickness** measurement.**Classification codes**

A8160B (Surface treatment and degradation of metals and alloys).
B7320C (Spatial variables measurement).
B8220 (Nuclear power stations and plants).

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INSPEC - 1969 to date (INZZ)

Accession number & update

6332504, A1999-19-2844-002, B1999-10-8220-002, C1999-10-7440-010; 19990901.

Title

Prediction of **pipe thinning** location for nuclear power plant and its application to **pipe wall** monitoring.

Author(s)

Feng-Yuh-Ming; Ma-Yin-Peng; Ma-Kuo-Tong; Chung-Nien-Mien.

Source

Monthly-Journal-of-Taipower-s-Engineering (Taiwan), vol.606, p.10-27, Feb. 1999. , Published: Taiwan Power Co. Power Res. Inst.

CODEN

TGYUFU.

ISSN

ISSN: 0494-5468.

Availability

SICI: 0494-5468(199902)606L:10:PPTL; 1-7.

Publication year

1999.

Language

CH.

Publication type

J Journal Paper.

Treatment codes

P Practical.

Abstract

This paper presents the joint research results obtained by utilizing the CFD codes (PHOENICS and FLOW3D) and local erosion-corrosion model. It was found that the possible distributions of **wall thinning** locations predicted by the current erosion-corrosion model showed good agreement with the measured data of **wall thickness** for Maanshan nuclear power plant. It means that the local model proposed by this paper can capture the characteristics of wear site distributions for different fittings under different flow conditions and **pipe** layout, and subsequently can predict the distributions of **wall thinning** locations for the whole **pipe** system. In addition to providing the predictive guidelines of wear sites for all kinds of fittings, the current model is also helpful for selecting measured fittings and for plotting measured points for the **pipe wall** monitoring program of a nuclear power plant. (8 refs).

Descriptors

computational-fluid-dynamics; corrosion; fission-reactor-materials;
fission-reactor-safety; mechanical-engineering-computing; nuclear-power-stations; wear.

Keywords

pipe thinning location prediction; nuclear power plant; **pipe wall** monitoring; PHOENICS CFD code;

FLOW3D CFD code; local erosion corrosion model; Maanshan nuclear power plant; wear site distributions; flow conditions; **pipe** layout; predictive guidelines; wear sites; measured points plotting; measured fittings selection.

Classification codes



A2844 (Fission reactor protection systems, safety and accidents).
A8160B (Surface treatment and degradation of metals and alloys).
A4710 (General **fluid** dynamics theory, simulation and other




computational methods).
A8140P (Friction, lubrication, and wear).
A2842 (Fission reactor materials).
A2850G (Light water reactors).
B8220 (Nuclear power stations and plants).
C7440 (Civil and mechanical engineering computing).

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JNL = Journal or Magazine **CNF** = Conference **STD** = Standard**1 Deposition of TiN films on the inner wall of a pipe by DC vacuum cathodic arc deposition and PBII**

Xinxin Ma; Yukimura, K.; Kumagai, M.; Maruyama, T.; Kohata, M.; Saito, H.;
Plasma Science, 2002. ICOPS 2002. IEEE Conference Record - Abstracts. The IEEE International Conference on , 26-30 May 2002
Pages:262

[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) **IEEE CNF****2 Performance characterization of a novel flat plate micro heat pipe spreader**

Kalahasti, S.; Joshi, Y.K.;
Components and Packaging Technologies, IEEE Transactions on [see also Components, Packaging and Manufacturing Technology, Part A: Packaging Technologies, IEEE Transactions on] , Volume: 25 , Issue: 4 , Dec. 2002
Pages:554 - 560

[\[Abstract\]](#) [\[PDF Full-Text \(936 KB\)\]](#) **IEEE JNL****3 The APS direct-drive pulsed septum magnets**

Sheynin, S.; Lopez, F.; Milton, S.V.;
Particle Accelerator Conference, 1995., Proceedings of the 1995 , Volume: 2 , May 1995
Pages:1355 - 1357 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(228 KB\)\]](#) **IEEE CNF****4 General analysis of the longitudinal coupling impedance of a rectangular slot in a thin coaxial liner**

Fedotov, A.V.; Gluckstern, R.L.;
Particle Accelerator Conference, 1997. Proceedings of the 1997 , Volume: 2 , May 1997
Pages:1747 - 1749 vol.2

[\[Abstract\]](#) [\[PDF Full-Text \(200 KB\)\]](#) IEEE CNF

5 Characteristics of piezoelectric locomotive mechanism for an in-pipe micro inspection machine

Idogaki, T.; Kanayama, H.; Ohya, N.; Suzuki, H.; Hattori, T.;

Micro Machine and Human Science, 1995. MHS '95., Proceedings of the Sixth International Symposium on , 4-6 Oct. 1995

Pages:193 - 198

[\[Abstract\]](#) [\[PDF Full-Text \(396 KB\)\]](#) IEEE CNF

6 In-place detection of internal and external corrosion for underground casing pipes

Jiming Yin; de Gyves, J.P.; Mi Lu;

Industrial Technology, 1994. Proceedings of the IEEE International Conference on , 5-9 Dec. 1994

Pages:789 - 793

[\[Abstract\]](#) [\[PDF Full-Text \(372 KB\)\]](#) IEEE CNF

7 A piezo-electric pump driven by a flexural progressive wave

Miyazaki, S.; Kawai, T.; Araragi, M.;

Micro Electro Mechanical Systems, 1991, MEMS '91, Proceedings. 'An Investigation of Micro Structures, Sensors, Actuators, Machines and Robots'. IEEE , 30 Jan. Feb. 1991

Pages:283 - 288

[\[Abstract\]](#) [\[PDF Full-Text \(344 KB\)\]](#) IEEE CNF

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<input type="checkbox"/>	L15	simulating and wall thickness and thinning and fluid flow and corrosion and prediction	1
<input type="checkbox"/>	L14	L13 and (thinning near5 rate)	1
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<input type="checkbox"/>	L12	L10 and (pipe near5 thin\$)	1
<input type="checkbox"/>	L11	L10 and (thin\$ near5 predict\$)	1
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<input type="checkbox"/>	L6	L5 and fluid near5 flow\$	303
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☐ 1. Document ID: US 20010032064 A1

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L8: Entry 1 of 1

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoiike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWC	Draw. De
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Term	Documents
WALL	1072317
WALLS	662040
THICKNESS	995566
THICKNESSES	156553
THINNING	29250
THINNINGS	116
((THINNING NEAR5 (WALL ADJ THICKNESS)) AND 7).PGPB,USPT.	1

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☐ 1. Document ID: US 20010032064 A1

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L11: Entry 1 of 1

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Term	Documents
THIN\$	0
THIN	757941
THINA	2
THINABILITY	3
THINABLE	33
THINADIAZOLE	1
THINAIR	2
THINAIRAPPS	3

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☐ 1. Document ID: US 20010032064 A1

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L12: Entry 1 of 1

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. Data
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Term	Documents
PIPE	315078
PIPES	137439
THIN\$	0
THIN	757941
THINA	2
THINABILITY	3
THINABLE	33
THINADIAZOLE	1

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L10: Entry 1 of 28

File: PGPB

May 13, 2004

PGPUB-DOCUMENT-NUMBER: 20040090553

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040090553 A1

TITLE: Monolithic integrated circuit with a printhead interface

PUBLICATION-DATE: May 13, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	

US-CL-CURRENT: 348/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw. De
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☐ 2. Document ID: US 20040080620 A1

L10: Entry 2 of 28

File: PGPB

Apr 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040080620

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040080620 A1

TITLE: Integrated circuit for a digital camera system

PUBLICATION-DATE: April 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	

US-CL-CURRENT: 348/207.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	K/MC	Draw. De
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☐ 3. Document ID: US 20040075747 A1

L10: Entry 3 of 28

File: PGPB

Apr 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040075747
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040075747 A1

TITLE: Monolithic integrated circuit having a number of programmable processing elements

PUBLICATION-DATE: April 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	

US-CL-CURRENT: 348/207.99

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 4. Document ID: US 20040065738 A1

L10: Entry 4 of 28

File: PGPB

Apr 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040065738
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040065738 A1

TITLE: Data distribution mechanism in the form of ink dots on cards

PUBLICATION-DATE: April 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	
Walmsley, Simon Robert	Balmain		AU	

US-CL-CURRENT: 235/454

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw. De
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☐ 5. Document ID: US 20040056105 A1

L10: Entry 5 of 28

File: PGPB

Mar 25, 2004

PGPUB-DOCUMENT-NUMBER: 20040056105
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040056105 A1

TITLE: Data structure encoded on a surface of an object

PUBLICATION-DATE: March 25, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	
Robert, Walmsley Simon	Balmain		AU	

US-CL-CURRENT: 235/494

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 20040041018 A1

L10: Entry 6 of 28

File: PGPB

Mar 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040041018
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040041018 A1

TITLE: Card having coded data and visible information, for operating a device

PUBLICATION-DATE: March 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	
Walsmley, Simon Robert	Balmain		AU	

US-CL-CURRENT: 235/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 7. Document ID: US 20040008262 A1

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File: PGPB

Jan 15, 2004

PGPUB-DOCUMENT-NUMBER: 20040008262
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20040008262 A1

TITLE: Utilization of color transformation effects in photographs

PUBLICATION-DATE: January 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	
Lapstun, Paul	Balmain		AU	
Walmsley, Simon Robert	Balmain		AU	

US-CL-CURRENT: 348/207.2; 348/222.1, 348/231.3, 348/231.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 8. Document ID: US 20040004698 A1

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File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040004698

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040004698 A1

TITLE: Programmable camera system with software interpreter

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	
Lapstun, Paul	Balmain		AU	

US-CL-CURRENT: 355/18

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawings
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☐ 9. Document ID: US 20040004129 A1

L10: Entry 9 of 28

File: PGPB

Jan 8, 2004

PGPUB-DOCUMENT-NUMBER: 20040004129

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040004129 A1

TITLE: Identifying card

PUBLICATION-DATE: January 8, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	

US-CL-CURRENT: 235/487

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Drawings
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☐ 10. Document ID: US 20030117496 A1

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File: PGPB

Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030117496

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030117496 A1

TITLE: Preprinted print rolls for postal use in an image processing device

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Silverbrook, Kia	Balmain		AU	

US-CL-CURRENT: 348/207.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 20010032064 A1

L10: Entry 11 of 28

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 12. Document ID: US 6750944 B2

L10: Entry 12 of 28

File: USPT

Jun 15, 2004

US-PAT-NO: 6750944
DOCUMENT-IDENTIFIER: US 6750944 B2

TITLE: Programmable camera system with software interpreter

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook, Kia	Balmain			AU
Lapstun, Paul	Balmain			AU

US-CL-CURRENT: 355/18; 396/211, 396/57

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw De
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☐ 13. Document ID: US 6750901 B1

L10: Entry 13 of 28

File: USPT

Jun 15, 2004

US-PAT-NO: 6750901

DOCUMENT-IDENTIFIER: US 6750901 B1

TITLE: Digital instant printing camera with image processing capability

DATE-ISSUED: June 15, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/207.2; 348/375

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw De
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☐ 14. Document ID: US 6665454 B1

L10: Entry 14 of 28

File: USPT

Dec 16, 2003

US-PAT-NO: 6665454

DOCUMENT-IDENTIFIER: US 6665454 B1

TITLE: Dot adjacency compensation in optical storage systems using ink dots

DATE-ISSUED: December 16, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 382/299; 345/596, 345/698, 358/1.7, 358/1.8, 358/448, 358/453,
382/267, 382/274, 382/282

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWMC	Draw De
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☐ 15. Document ID: US 6636216 B1

L10: Entry 15 of 28

File: USPT

Oct 21, 2003

US-PAT-NO: 6636216

DOCUMENT-IDENTIFIER: US 6636216 B1

TITLE: Digital image warping system

DATE-ISSUED: October 21, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Lapstun; Paul	Sydney			AU

US-CL-CURRENT: 345/427; 345/646

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 6542645 B1

L10: Entry 16 of 28

File: USPT

Apr 1, 2003

US-PAT-NO: 6542645

DOCUMENT-IDENTIFIER: US 6542645 B1

TITLE: Adaptive tracking of dots in optical storage system using ink dots

DATE-ISSUED: April 1, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 382/254; 235/437, 382/309

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 6476863 B1

L10: Entry 17 of 28

File: USPT

Nov 5, 2002

US-PAT-NO: 6476863

DOCUMENT-IDENTIFIER: US 6476863 B1

**** See image for Certificate of Correction ****

TITLE: Image transformation means including user interface

DATE-ISSUED: November 5, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 348/231.9

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 6459495 B1

L10: Entry 18 of 28

File: USPT

Oct 1, 2002

US-PAT-NO: 6459495

DOCUMENT-IDENTIFIER: US 6459495 B1

TITLE: Dot center tracking in optical storage systems using ink dots

DATE-ISSUED: October 1, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 358/520

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search	Abstract	Claims	KWIC	Draw D
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☐ 19. Document ID: US 6442525 B1

L10: Entry 19 of 28

File: USPT

Aug 27, 2002

US-PAT-NO: 6442525

DOCUMENT-IDENTIFIER: US 6442525 B1

TITLE: System for authenticating physical objects

DATE-ISSUED: August 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Balmain NSW 2041			AU
Walmsley; Simon Robert	Epping NSW 2121			AU
Lapstun; Paul	Rodd Point NSW 2046			AU

US-CL-CURRENT: 705/1, 235/379, 235/380, 235/382, 348/441, 348/460, 348/552, 380/30, 705/51, 705/52, 705/64, 705/67, 705/71, 713/169, 713/180

Full	Title	Citation	Front	Review	Classification	Date	Reference	Search	Abstract	Claims	KWIC	Draw D
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☐ 20. Document ID: US 6431669 B1

L10: Entry 20 of 28

File: USPT

Aug 13, 2002

US-PAT-NO: 6431669

DOCUMENT-IDENTIFIER: US 6431669 B1

TITLE: Method and apparatus for information storage in a portable print roll

DATE-ISSUED: August 13, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 347/2; 358/296

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMIC	Draw De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
CORROSION	166231
CORROSIONS	442
(9 AND CORROSION).PGPB,USPT.	28
(L9 AND CORROSION).PGPB,USPT.	28

Display Format: [Previous Page](#)[Next Page](#)[Go to Doc#](#)

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 21 through 28 of 28 returned.

☐ 21. Document ID: US 6415054 B1

Using default format because multiple data bases are involved.

L10: Entry 21 of 28

File: USPT

Jul 2, 2002

US-PAT-NO: 6415054

DOCUMENT-IDENTIFIER: US 6415054 B1

TITLE: Target detection for dot region alignment in optical storage systems using ink dots

DATE-ISSUED: July 2, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 382/233

Full	Title	Citation	Front	Review	Classification	Date	Reference	Excluded	Unpublished	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 6362869 B1

L10: Entry 22 of 28

File: USPT

Mar 26, 2002

US-PAT-NO: 6362869

DOCUMENT-IDENTIFIER: US 6362869 B1

TITLE: Authentication system for camera print rolls

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 355/18; 347/101, 347/19

Full	Title	Citation	Front	Review	Classification	Date	Reference	Excluded	Unpublished	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 6362868 B1

L10: Entry 23 of 28

File: USPT

Mar 26, 2002

US-PAT-NO: 6362868

DOCUMENT-IDENTIFIER: US 6362868 B1

TITLE: Print media roll and ink replaceable cartridge

DATE-ISSUED: March 26, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 355/18; 347/86, 355/72, 399/12

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 6356715 B1

L10: Entry 24 of 28

File: USPT

Mar 12, 2002

US-PAT-NO: 6356715

DOCUMENT-IDENTIFIER: US 6356715 B1

**** See image for Certificate of Correction ****

TITLE: Prints remaining indicating for camera with variable length print capability

DATE-ISSUED: March 12, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 396/284; 347/101, 396/429, 396/515

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWIC	Draw. De
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☐ 25. Document ID: US 6317192 B1

L10: Entry 25 of 28

File: USPT

Nov 13, 2001

US-PAT-NO: 6317192

DOCUMENT-IDENTIFIER: US 6317192 B1

TITLE: Utilization of image tiling effects in photographs

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Lapstun; Paul	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 355/18; 347/2, 348/222.1, 396/429

Full	Title	Citation	Front	Review	Classification	Date	Reference	Document	Claims	KMMC	Draw. De
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☐ 26. Document ID: US 6315200 B1

L10: Entry 26 of 28

File: USPT

Nov 13, 2001

US-PAT-NO: 6315200

DOCUMENT-IDENTIFIER: US 6315200 B1

TITLE: Encoded data card reading system

DATE-ISSUED: November 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU
Walmsley; Simon Robert	Sydney			AU

US-CL-CURRENT: 235/454; 235/462.01, 235/462.1, 235/462.24, 235/470

Full	Title	Citation	Front	Review	Classification	Date	Reference	Document	Claims	KMMC	Draw. De
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☐ 27. Document ID: US 6217165 B1

L10: Entry 27 of 28

File: USPT

Apr 17, 2001

US-PAT-NO: 6217165

DOCUMENT-IDENTIFIER: US 6217165 B1

TITLE: Ink and media cartridge with axial ink chambers

DATE-ISSUED: April 17, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Silverbrook; Kia	Sydney			AU

US-CL-CURRENT: 347/86

Full	Title	Citation	Front	Review	Classification	Date	Reference	Document	Claims	KMMC	Draw. De
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☐ 28. Document ID: US 5413091 A

L10: Entry 28 of 28

File: USPT

May 9, 1995

US-PAT-NO: 5413091

DOCUMENT-IDENTIFIER: US 5413091 A

TITLE: Solar collector with freeze damage protection

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bourke; Brendan V.	Stanmore			AU

US-CL-CURRENT: 126/598; 126/588, 126/663

Full	Title	Citation	Front	Review	Classification	Date	Reference	Corrosion	Technical	Claims	KMC	Draw D
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
CORROSION	166231
CORROSIONS	442
(9 AND CORROSION).PGPB,USPT.	28
(L9 AND CORROSION).PGPB,USPT.	28

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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20010032064 A1

Using default format because multiple data bases are involved.

L14: Entry 1 of 1

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
THINNING	29250
THINNINGS	116
RATE	1211411
RATES	401317
(13 AND (THINNING NEAR5 RATE)).PGPB,USPT.	1
(L13 AND (THINNING NEAR5 RATE)).PGPB,USPT.	1

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 1 of 1 returned.

☐ 1. Document ID: US 20010032064 A1

Using default format because multiple data bases are involved.

L15: Entry 1 of 1

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoiike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWD	Draw. D
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Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs	Generate OACS
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Term	Documents
SIMULATING	42606
SIMULATINGS	0
WALL	1072317
WALLS	662040
THICKNESS	995566
THICKNESSES	156553
THINNING	29250
THINNINGS	116

Hit List

Clear	Generate Collection	Print	Fwd Refs	Bkwd Refs
Generate OACS				

Search Results - Record(s) 1 through 4 of 4 returned.

☐ 1. Document ID: US 20010032064 A1

Using default format because multiple data bases are involved.

L18: Entry 1 of 4

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Araki, Kenji	Mito		JP	
Takada, Masatoshi	Hitachi		JP	
Hisatsune, Masakazu	Hitachi		JP	
Aoike, Satoru	Hitachi		JP	
Utaka, Kenji	Hitachi		JP	
Noujima, Masafumi	Hitachi		JP	
Takeuchi, Chikara	Hitachi		JP	

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Drawings
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☐ 2. Document ID: US 5413091 A

L18: Entry 2 of 4

File: USPT

May 9, 1995

US-PAT-NO: 5413091

DOCUMENT-IDENTIFIER: US 5413091 A

TITLE: Solar collector with freeze damage protection

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bourke, Brendan V.	Stanmore			AU

US-CL-CURRENT: 126/598; 126/588, 126/663

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw De
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☐ 3. Document ID: US 4922748 A

L18: Entry 3 of 4

File: USPT

May 8, 1990

US-PAT-NO: 4922748

DOCUMENT-IDENTIFIER: US 4922748 A

TITLE: Method for monitoring thinning of pipe walls and piping component for use therewith

DATE-ISSUED: May 8, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hopenfeld; Joram	Rockville	MD	20850	

US-CL-CURRENT: 73/86; 250/303, 73/40.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw De
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☐ 4. Document ID: US 4779453 A

L18: Entry 4 of 4

File: USPT

Oct 25, 1988

US-PAT-NO: 4779453

DOCUMENT-IDENTIFIER: US 4779453 A

TITLE: Method for monitoring thinning of pipe walls

DATE-ISSUED: October 25, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hopenfeld; Joram	Rockville	MD	20850	

US-CL-CURRENT: 73/86; 250/303, 73/40.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KWC	Draw De
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Term	Documents
CORROSION	166231
CORROSIONS	442
(17 AND CORROSION).PGPB,USPT.	4
(L17 AND CORROSION).PGPB,USPT.	4

Hit List

Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Search Results - Record(s) 1 through 14 of 14 returned.☐ 1. Document ID: US 20030051876 A1**Using default format because multiple data bases are involved.**

L17: Entry 1 of 14

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030051876

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030051876 A1

TITLE: Method and apparatus for stimulation of multiple formation intervals

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tolman, Randy C.	Marbleton	WY	US	
Carlson, Lawrence O.	Cypress	TX	US	
Kinison, David A.	Kingwood	TX	US	
Nygaard, Kris J.	Houston	TX	US	
Goss, Glenn S.	Kingwood	TX	US	
Sorem, William A.	Katy	TX	US	
Shafer, Lee L.	Big Piney	WY	US	

US-CL-CURRENT: [166/313](#); [166/297](#), [166/305.1](#), [166/55.1](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	RWMC	Draw De
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☐ 2. Document ID: US 20020092650 A1

L17: Entry 2 of 14

File: PGPB

Jul 18, 2002

PGPUB-DOCUMENT-NUMBER: 20020092650

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020092650 A1

TITLE: Method and apparatus for stimulation of multiple formation intervals

PUBLICATION-DATE: July 18, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tolman, Randy C.	Marbleton	WY	US	
Carlson, Lawrence O.	Cypress	TX	US	

Kinison, David A.	Kingwood	TX	US
Nygaard, Kris J.	Houston	TX	US
Goss, Glenn S.	Kingwood	TX	US
Sorem, William A.	Katy	TX	US
Shafer, Lee L.	Big Piney	WY	US

US-CL-CURRENT: 166/298; 166/55.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 3. Document ID: US 20010050172 A1

L17: Entry 3 of 14

File: PGPB

Dec 13, 2001

PGPUB-DOCUMENT-NUMBER: 20010050172

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010050172 A1

TITLE: Method and apparatus for stimulation of multiple formation intervals

PUBLICATION-DATE: December 13, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Tolman, Randy C.	Marbleton	WY	US	
Carlson, Lawrence O.	Cypress	TX	US	
Kinison, David A.	Kingwood	TX	US	
Nygaard, Kris J.	Houston	TX	US	
Goss, Glenn S.	Kingwood	TX	US	
Sorem, William A.	Katy	TX	US	
Shafer, Lee L.	Big Piney	WY	US	

US-CL-CURRENT: 166/297; 166/222, 166/305.1, 166/55.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 4. Document ID: US 20010032064 A1

L17: Entry 4 of 14

File: PGPB

Oct 18, 2001

PGPUB-DOCUMENT-NUMBER: 20010032064

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20010032064 A1

TITLE: Method of offering wall-thickness thinning prediction information, and computer-readable recording medium storing wall-thickness thinning prediction program, and method of planning piping work plan

PUBLICATION-DATE: October 18, 2001

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
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Araki, Kenji	Mito	JP
Takada, Masatoshi	Hitachi	JP
Hisatsune, Masakazu	Hitachi	JP
Aoike, Satoru	Hitachi	JP
Utaka, Kenji	Hitachi	JP
Noujima, Masafumi	Hitachi	JP
Takeuchi, Chikara	Hitachi	JP

US-CL-CURRENT: 703/6

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 5. Document ID: US 6520255 B2

L17: Entry 5 of 14

File: USPT

Feb 18, 2003

US-PAT-NO: 6520255

DOCUMENT-IDENTIFIER: US 6520255 B2

TITLE: Method and apparatus for stimulation of multiple formation intervals

DATE-ISSUED: February 18, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tolman; Randy C.	Marbleton	WY		
Carlson; Lawrence O.	Cypress	TX		
Kinison; David A.	Kingwood	TX		
Nygaard; Kris J.	Houston	TX		
Goss; Glenn S.	Kingwood	TX		
Sorem; William A.	Katy	TX		
Shafer; Lee L.	Big Piney	WY		

US-CL-CURRENT: 166/281, 166/120, 166/135, 166/177.5, 166/191, 166/297, 166/308.6,
166/384, 166/385, 166/386, 166/55.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 6. Document ID: US 6394184 B2

L17: Entry 6 of 14

File: USPT

May 28, 2002

US-PAT-NO: 6394184

DOCUMENT-IDENTIFIER: US 6394184 B2

TITLE: Method and apparatus for stimulation of multiple formation intervals

DATE-ISSUED: May 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tolman; Randy C.	Marbleton	WY		

Carlson; Lawrence O.	Cypress	TX
Kinison; David A.	Kingwood	TX
Nygaard; Kris J.	Houston	TX
Goss; Glenn S.	Kingwood	TX
Sorem; William A.	Katy	TX
Shafer; Lee L.	Big Piney	WY

US-CL-CURRENT: 166/281; 166/120, 166/135, 166/177.5, 166/191, 166/297, 166/308.1,
166/384, 166/385, 166/386, 166/55.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw De
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☐ 7. Document ID: US 5570603 A

L17: Entry 7 of 14

File: USPT

Nov 5, 1996

US-PAT-NO: 5570603

DOCUMENT-IDENTIFIER: US 5570603 A

TITLE: Method and apparatus for cold rolling piping element connections having multiple outward steps

DATE-ISSUED: November 5, 1996

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chatterley; Charles N.	Coventry	RI		
Horgan; Michael W.	West Warwick	RI		
Lippka; Sandra M.	Warwick	RI		

US-CL-CURRENT: 72/101; 72/105

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstracts	Abstracts	Claims	KWIC	Draw De
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☐ 8. Document ID: US 5450738 A

L17: Entry 8 of 14

File: USPT

Sep 19, 1995

US-PAT-NO: 5450738

DOCUMENT-IDENTIFIER: US 5450738 A

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for forming piping element connections having multiple outward steps

DATE-ISSUED: September 19, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Chatterley; Charles N.	Coventry	RI		
Horgan; Michael W.	West Warwick	RI		

US-CL-CURRENT: 72/106

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMMC	Draw. De
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☐ 9. Document ID: US 5413091 A

L17: Entry 9 of 14

File: USPT

May 9, 1995

US-PAT-NO: 5413091

DOCUMENT-IDENTIFIER: US 5413091 A

TITLE: Solar collector with freeze damage protection

DATE-ISSUED: May 9, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bourke; Brendan V.	Stanmore			AU

US-CL-CURRENT: 126/598; 126/588, 126/663

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMMC	Draw. De
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☐ 10. Document ID: US 4922748 A

L17: Entry 10 of 14

File: USPT

May 8, 1990

US-PAT-NO: 4922748

DOCUMENT-IDENTIFIER: US 4922748 A

TITLE: Method for monitoring thinning of pipe walls and piping component for use therewith

DATE-ISSUED: May 8, 1990

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hopenfeld; Joram	Rockville	MD	20850	

US-CL-CURRENT: 73/86; 250/303, 73/40.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Abstract	Claims	KMMC	Draw. De
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☐ 11. Document ID: US 4779453 A

L17: Entry 11 of 14

File: USPT

Oct 25, 1988

US-PAT-NO: 4779453

DOCUMENT-IDENTIFIER: US 4779453 A

TITLE: Method for monitoring thinning of pipe walls

DATE-ISSUED: October 25, 1988

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Hopenfeld; Joram	Rockville	MD	20850	

US-CL-CURRENT: 73/86; 250/303, 73/40.7

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. De
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☐ 12. Document ID: US 4502313 A

L17: Entry 12 of 14

File: USPT

Mar 5, 1985

US-PAT-NO: 4502313

DOCUMENT-IDENTIFIER: US 4502313 A

TITLE: Tooling adjustment

DATE-ISSUED: March 5, 1985

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Phalin; Thomas L.	Cary	IL		
Ulmes; James J.	Palatine	IL		

US-CL-CURRENT: 72/342.3; 72/349, 72/364

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. De
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☐ 13. Document ID: US 4341827 A

L17: Entry 13 of 14

File: USPT

Jul 27, 1982

US-PAT-NO: 4341827

DOCUMENT-IDENTIFIER: US 4341827 A

TITLE: Biaxially oriented thermoplastic polymer film and method of manufacture

DATE-ISSUED: July 27, 1982

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Austen; Alfred A.	Center Valley	PA		
Humphries; Darral V.	Allentown	PA		

US-CL-CURRENT: 428/36.91; 138/137, 138/140, 138/177, 264/323, 264/514, 264/570,
428/220, 428/474.4, 428/480, 428/523, 428/524, 524/425, 524/427, 524/449, 524/451,
524/557, 524/582, 524/584, 524/585, 524/586, 524/587, 524/593, 524/604, 524/605,
524/606, 526/270, 526/309, 526/323, 526/335, 526/348.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. De
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☐ 14. Document ID: US 4230527 A

L17: Entry 14 of 14

File: USPT

Oct 28, 1980

US-PAT-NO: 4230527

DOCUMENT-IDENTIFIER: US 4230527 A

TITLE: Steam generator for use in nuclear power plants

DATE-ISSUED: October 28, 1980

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cella; Alexander	Great Notch	NJ	07424	

US-CL-CURRENT: 376/402; 165/163, 165/76, 376/371, 976/DIG.195

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWC	Draw. De
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